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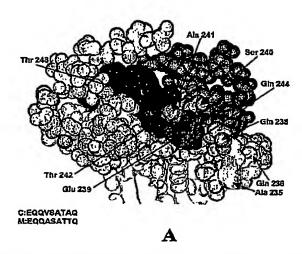
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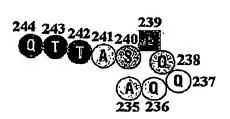
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[Continued on next page]

(54) Title: MAPPING DISCONTINUOUS ANTIBODY OR APTAMER EPITOPES FOR PROTEIN STRUCTURE DETERMINATION AND OTHER APPLICATIONS





Proposed hairpin conformation of the C3 loop residues 235-240 in thodopsin

В

(57) Abstract: The present invention is directed to methods of mapping antibody or aptamer epitopes for use in a variety of utilities including the elucidation of the tertiary structure of proteins. A method of the invention, antibody imprinting, uses antibodies or aptamers against target proteins and random peptide probe libraries to map the epitopes of antibody binding sites on target proteins.

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| According | to international Patent Classification (IPC) or to both national G | assification and IPC | |
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